

From: [Fang, Sharon](#)
To: [Fang, Sharon](#)
Subject: Fw: Structural Backfill Materials-11/24/2008
Date: Tuesday, September 26, 2017 10:23:21 AM

Sharon Fang, P.E.
Eastern Pennsylvania Remedial Branch
Environmental Protection Agency, Region III
1650 Arch Street, 3HS21
Philadelphia, PA 19103-2029
phone 215-814-3018, fax 3002
----- Forwarded by Sharon Fang/R3/USEPA/US on 09/26/2017 10:22 AM -----

From: "Johnson, Sterling H NAP" <Sterling.H.Johnson@usace.army.mil>
To: Sharon Fang/R3/USEPA/US@EPA,
Cc: "Kelly, Timothy J NAP" <Timothy.J.Kelly@usace.army.mil>, "Nicholas, Charles L NAP" <Charles.L.Nicholas@usace.army.mil>
Date: 11/25/2008 04:55 PM
Subject: RE: Structural Backfill Materials-11/24/2008

Tim,

Is that correct? That in your opinion you think even with the brick and other debris material ("i.e. fire brick, red brick, other concrete base, ... wood, plastic and other deleterious material within the pile") that that fill is suitable as backfill behind the sheet pile?

Sterling H. Johnson
I² S (Interagency and International Services) Program Branch
Philadelphia District, Corps of Engineers
Wanamaker Building / 100 Penn Square East
Philadelphia, PA 19107
p:(215) 656-6608 / f:(215) 656 - 6699 /
c: (267) 254-3294
sterling.h.johnson@usace.army.mil

-----Original Message-----

From: Langseder, Steven [<mailto:SLangseder@PIRNIE.com>]
Sent: Tuesday, November 25, 2008 4:31 PM
To: Vitale, Joseph; Fang.Sharon@epamail.epa.gov
Cc: Ludzia.Peter@epamail.epa.gov; Kelly, Timothy J NAP; Johnson, Sterling H NAP; Davies, Wyn; Vitale, Joseph
Subject: RE: Structural Backfill Materials-11/24/2008

Hi Sharon,

This email is a follow-up to the email messages below and our conversations earlier today regarding the structural fill material. I discussed the structural fill material issues with Tim Kelly and he informed me that even though the material would not be his first choice, he agreed that it is suitable for the intended purpose of backfilling behind the sheet pile wall.

Regards,
Steve

-----Original Message-----

From: Vitale, Joseph
Sent: Tuesday, November 25, 2008 11:38 AM
To: Fang.Sharon@epamail.epa.gov
Cc: Ludzia.Peter@epamail.epa.gov; timothy.j.kelly@usace.army.mil; Sterling.H.Johnson@usace.army.mil; Langseder, Steven
Subject: RE: Structural Backfill Materials-11/24/2008

Hi Sharon:

I called Steve Langseder and instructed him to discuss the quality of the structural fill with Tim Kelly of the USACE and mutually decide whether this material is deemed acceptable according to the specifications. Steve will be sending a joint response to you shortly after conferring with Mr. Kelly.

Regards,

Joe Vitale, P.E., LSP
Senior Associate
Malcolm Pirnie
Office: 781 213 4930

Cell: 617 642 0776

-----Original Message-----

From: Fang.Sharon@epamail.epa.gov [mailto:Fang.Sharon@epamail.epa.gov]
Sent: Tuesday, November 25, 2008 11:15 AM
To: Vitale, Joseph
Cc: Ludzia.Peter@epamail.epa.gov; timothy.j.kelly@usace.army.mil;
Sterling.H.Johnson@usace.army.mil
Subject: Fw: Structural Backfill Materials-11/24/2008

Hi Joe,

FYI.

Sharon Fang, P.E.
Eastern Pennsylvania Remedial Branch
Environmental Protection Agency, Region III
1650 Arch Street, 3HS21
Philadelphia, PA 19103-2029
phone 215-814-3018, fax 3002
mobile phone 215-514-8674

----- Forwarded by Sharon Fang/R3/USEPA/US on 11/25/2008 11:13 AM -----

(b) (4)

(b) (4) @cdm

Sharon Fang/R3/USEPA/US@EPA

To

11/25/2008 09:13
AM

E.COM>, (b) (4)
@cdm.com
Subject
Structural Backfill
Materials-11/24/2008

Sharon,

The structural backfill material does not appear to be within the specifications that are required under the remedial design documents. CDM, US Army Corp. and Malcolm Pirnie were out by the structural fill pile around 1000am yesterday. Tim Kelly and I were wondering why there was so much fire brick, red brick and other concrete base within the fill pile. The material did not look like the other pile that arrived in previous days. The structural fill pile also has wood, plastic and other deleterious material within the pile. Tim and I notified Carlo DiTullio and alerted him to this. Carlo was already present conducting his own investigation of the materials. Carlo indicated the materials are sub-par and more of the same materials would not be accepted by Malcolm Pirnie to the site. Carlo said that he would go to speak with Dan Sullivan to tell him to cease the materials to the site until further investigation into the source of the materials could be conducted. CDM and US Army Corp. feel the material does not meet the specifications.

The specifications can be located on C-26 of the Remedial Design Drawings. The material being used should be broken or crushed stone or gravel or other tough particles. The material should be free of organic or other deleterious materials. The fines within the fill should not exceed 15%. This however, was changed with a CCR to not exceed 15.4%. The definition within the drawings indicate the fill should not have brick or other material that would be detrimental to the sheet wall's stability.

Carlo said that he would speak with Dan to stop the material delivery to the site.

Later in the day Carlo returns to speak with CDM. Carlo indicated the structural fill was going to keep being delivered to the site but will be at risk to TetraTech EC. CD said that the fill material needs to be investigated more it appears that the loads that were delivered had fallen in quality and would not be accepted on the site. CDM and Malcolm Pirnie understood that TetraTech will continue deliveries of the structural fill. TetraTech will be continuing the deliveries at risk that the materials may not be acceptable fill for the site and may have to be removed. CDM and US Army Corp.'s objections to the materials were heard and noted by Malcolm Pirnie before the materials were placed on the site.

(b) (4)

Geologist
993 Old Eagle School Rd

(b) (4)